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2000 WORLD RADIOCOMMUNICATION CONFERENCE PREPARATION	**IWG-7/7(Rev. 4) FCC ADVISORY COMMITTEE DATE: 18 March 1999 AUTHOR: Kent Bressie**

PRELIMINARY VIEW

WRC-2000 AGENDA ITEM 1.4: *to consider issues concerning allocations and regulatory aspects related to Resolutions **126** (WRC-97) (COM5-11), **726** (WRC-97) (COM5-12), **128** (WRC-97) (COM5-16), **129** (WRC-97) (COM5-17), **133** (WRC-97) (COM5-28) and **134** (WRC-97) (COM5-29).*

ISSUE: Technical and operational requirements for sharing between terrestrial and space services, and identification of spectrum for high-density applications in the fixed service, in the frequency band 37-40 GHz.

BACKGROUND: Resolution 133 (WRC-97) requests that the ITU-R conduct other studies on sharing between terrestrial and space services in the frequency bands 37-40 GHz. As reflected in [Document 9B/TEMP/71-E], three coordination scenarios have been identified: (1) areas where station-to-station coordination of FSS earth stations with FS stations is feasible due to sparse fixed service deployment; (2) areas where coordination with and by FSS earth stations should be carried out on a service area basis, rather than on a station-to-station basis, due to dense deployment of FS stations; and (3) areas where no coordination between FSS earth stations and FS stations will be needed due to the lack of FS deployment. Additional studies are being conducted to consider point-to-multipoint fixed service systems in the frequency band 38.6-40.0 GHz.

Resolution 133 (WRC-97) also requests that WRC-2000 consider the identification of spectrum in the frequency bands 37-40 GHz for high-density applications in the fixed service.

In a domestic proceeding, the United States has designated separate portions of the 37-40 GHz band to provide spectrum for use by FS and FSS systems, due to technical difficulties involved in sharing between FS and FSS terminals, where terminals for one or both applications are deployed ubiquitously in the same geographic area. Under the U.S. action, the 37.0-37.6 GHz band would be available for FS use in the United States; the 37.6-38.6 GHz band would be available for FSS downlink use; and the 38.6-40.0 GHz band would continue to be available for FS use.

PRELIMINARY VIEW: The United States is using the sub-band 38.6-40.0 GHz for high-density applications in the fixed service. In response to *requests ITU-R 2* of Resolution 133, the United States may make proposals for coordination between FS stations and FSS earth stations on a geographic area basis.